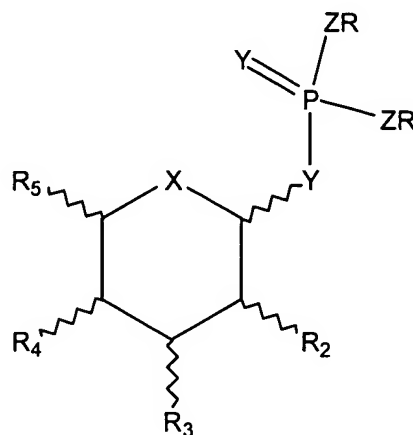


Clean Claims

1. (amended) A compound represented by structure 1:



1

wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

R is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aralkyl, heteroaryl, and heteroaralkyl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

R₂, R₃, and R₄ are independently selected from the group consisting of R₆, -OR', -SR', -NR'₂, -OSO₃H, and -OPO₃H₂;

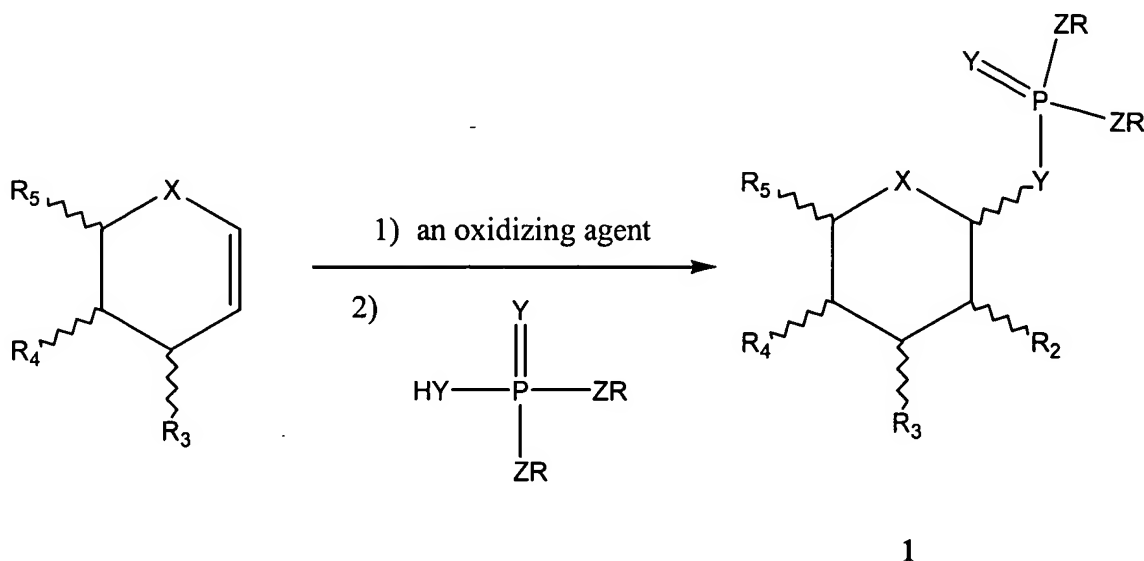
R₅ is selected from the group consisting of R₆, -(CR₂)_nOR', -(CR₂)_nSR', and -(CR₂)_nNR'₂;

R₆ is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

and

n is an integer selected from the range 0 to 10 inclusive.

42. (**amended**) A method of synthesizing a compound represented by **1**, wherein said method is represented by the following scheme:



wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

the oxidizing agent is selected from the group consisting of dioxiranes, percarboxylates, and persulfates;

R is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

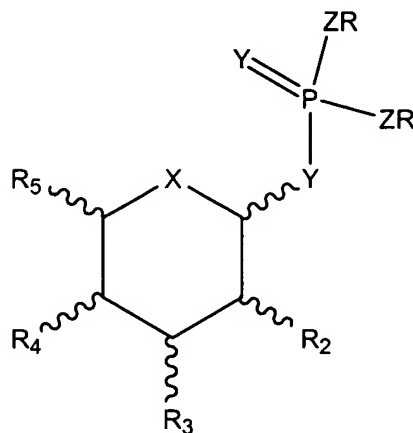
R_2 is OR' ;

R_3 , and R_4 are independently selected from the group consisting of R, $-OR'$, $-SR'$, $-NR'_2$, $-OSO_3H$, and $-OPO_3H_2$;

B2
R₅ is selected from the group consisting of R, -(CR₂)_nOR', -(CR₂)_nSR', and -(CR₂)_nNR'₂;
and

n is an integer selected from the range 0 to 10 inclusive.

45. (new) A compound represented by structure 2:



wherein

X represents O;

Y represents independently for each occurrence O;

Z represents independently for each occurrence O;

R represents independently for each occurrence aryl;

R' is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl, and sulfonyl;

R₂ is selected from the group consisting of R₆, -OR', -SR', -NR'₂, -OSO₃H, -OPO₃H₂;

R₃, and R₄ are independently selected from the group consisting of R₆, -OR₇, -SR', -NR'₂, -OSO₃H, and -OPO₃H₂;

R₅ is selected from the group consisting of R₆, -(CR₂)_nOR₇, -(CR₂)_nSR', and -(CR₂)_nNR'₂;

B3

R_6 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, aralkyl, heteroaryl, and heteroaralkyl;

R_7 is selected, independently for each occurrence, from the group consisting of H, alkyl, heteroalkyl, aryl, heteroaryl, heteroaralkyl, and sulfonyl;

and

n is an integer selected from the range 0 to 10 inclusive.

b3